

# PtCO<sub>2</sub> MONITOR

USER GUIDE  
(beta)



## USER GUIDE

The PtCO<sub>2</sub> application is developed to connect with Bluetooth® low energy (BLE) devices, so to have a properly functioning application it is required to have a BLE adapter integrated in the smartphone. Furthermore, classical Bluetooth® devices cannot be found by the application because it is specifically designed to identify only BLE devices only.

### 1. SIGN IN

If you are already registered to the application, access it by signing in with your email and password. If you have forgotten the password, click on the [password](#) hyperlink to recover it.



Welcome back!

Sign in to PtCO<sub>2</sub>

New to PtCO<sub>2</sub>? [Register](#)

Sign in

Continue without Log In


Forgot your [password](#)?

Need [HELP](#)?



If you are new to the app, click on the [Register](#) hyperlink to access the application. You will be redirected to the signing up page.

## 2. SIGN UP



Welcome!

Sign Up to PtCO<sub>2</sub>

Email


Password

Confirm Password

Already have an account? [Sign In](#)

Register

Continue without Log In

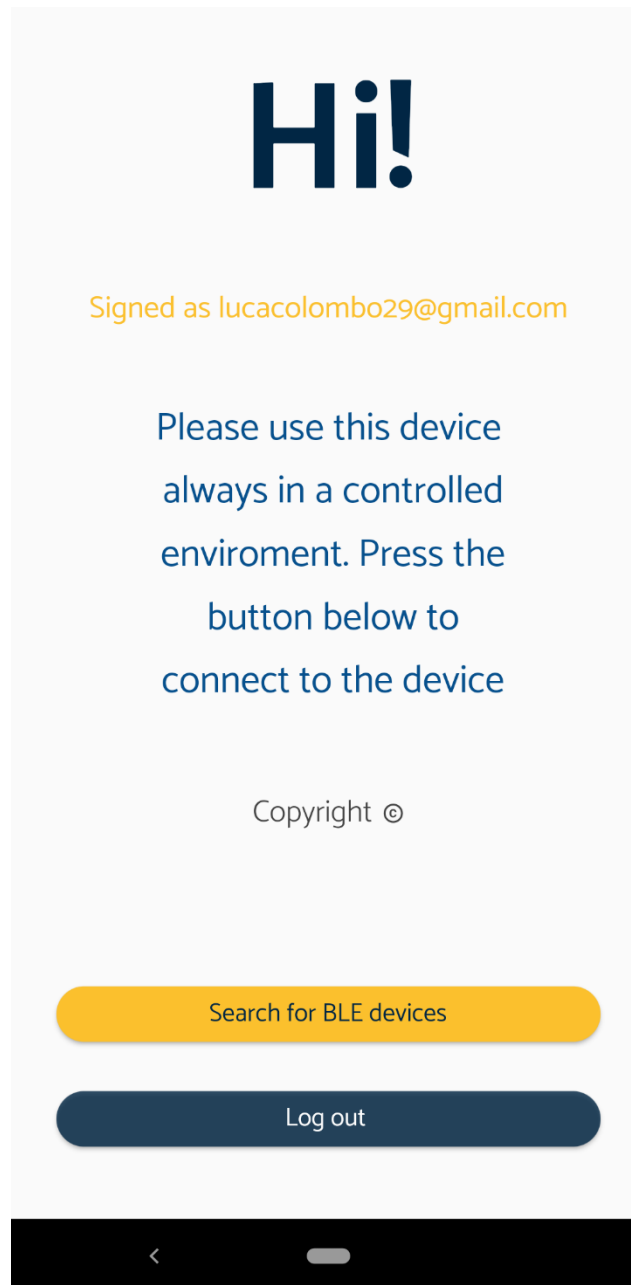


To register to the application, insert a valid email and a password of at least 6 alphanumeric characters. Confirm the password and register with the devoted button.

If you don't need to use the application while being logged in, you can avoid signing in or signing up and press the 'Continue without Log In' button. In this case, data collected from the device will only be stored locally in the Download folder of the device, without the possibility of having them available on the Google Firebase platform.

### 3. AUTHENTICATION AND COPYRIGHT

Once you are logged in or even if you are not logged in, you will be redirected to this screen. If you are logged in, your email will be displayed in yellow at the top as in the image, otherwise the screen will display 'Not signed in'.

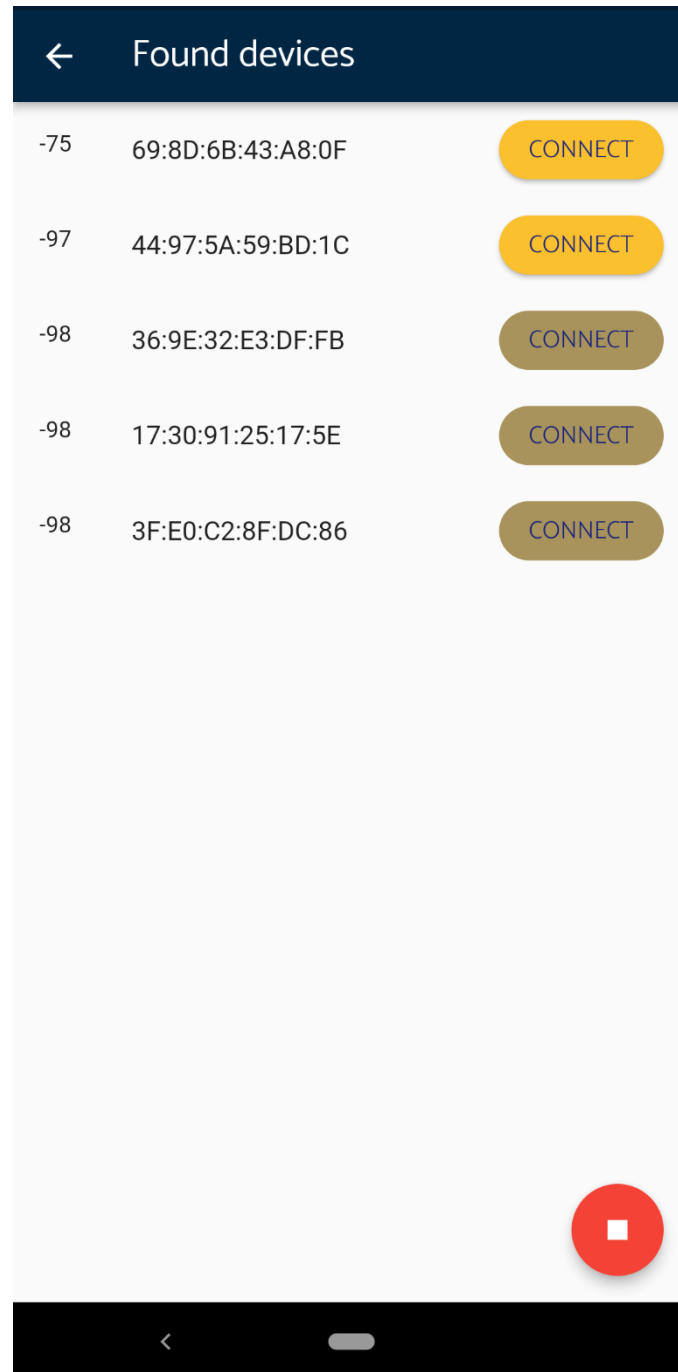


If you click on the Copyright© text, copyright information will be provided to the user. If you want to log out, simply click on the button; you will be redirected to the sign in page. Otherwise press 'Search for BLE devices' to discover BLE devices in proximity of the phone.

#### 4. SEARCH FOR BLE DEVICES

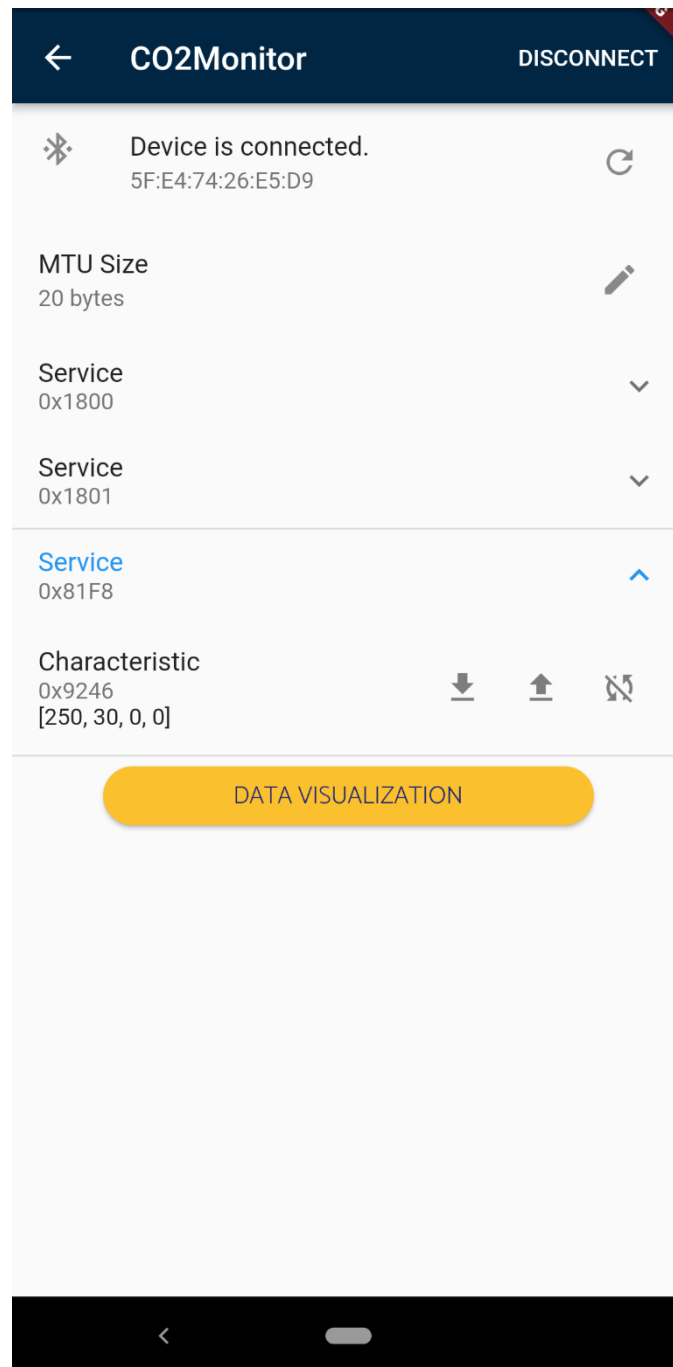
By pressing the search button in the bottom right the BLE devices discovery will begin. The search time is of 2 seconds, after which a list of available devices will be displayed.

Devices to which it is possible to connect will have an enlightened yellow button, while shadow yellow refers to devices to which you can not connect.



## 5. CONNECTION ESTABLISHMENT

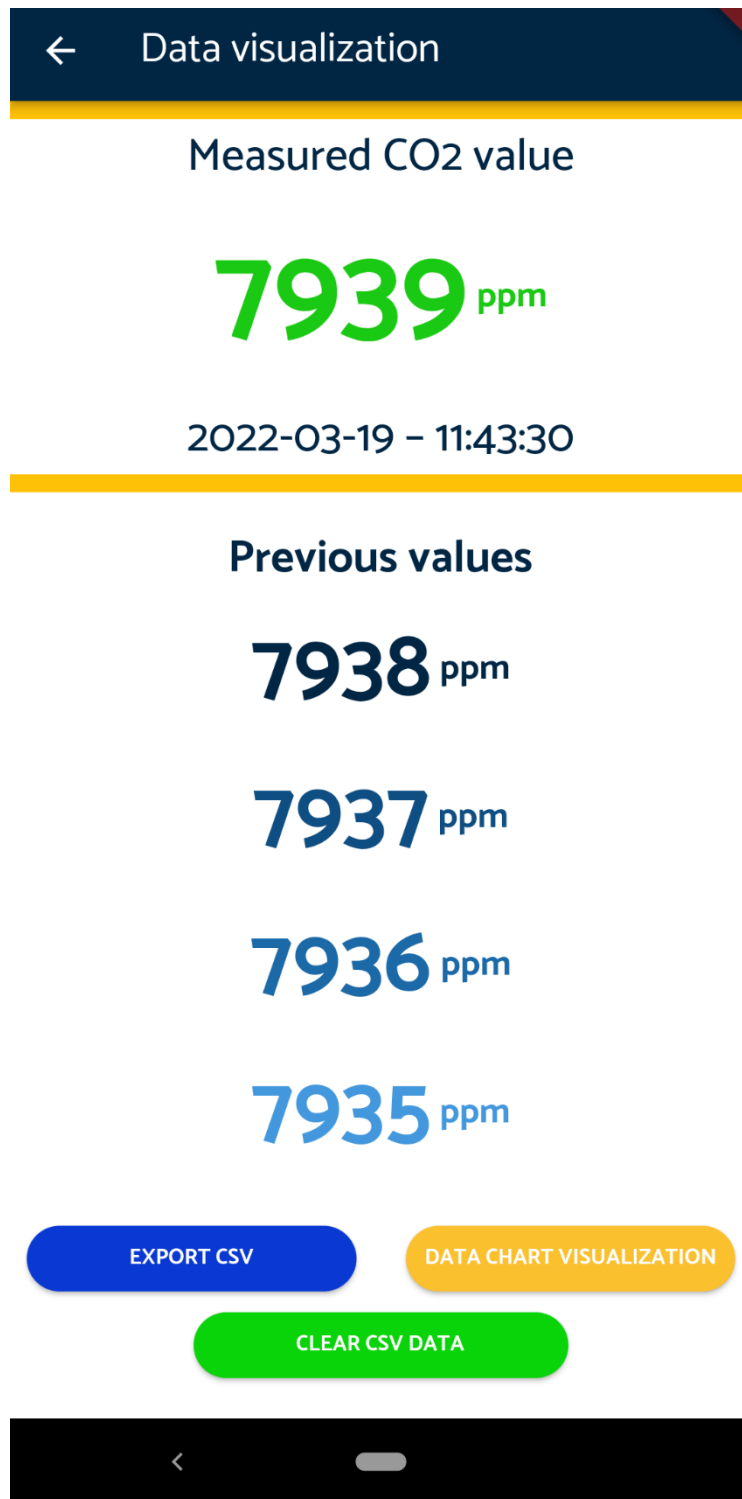
Once the connection button has been pressed, connection with the desired device is established. The following screen will appear.



To collect data from the device, press on the update button on the top right below the disconnect button. Once this is done, the available services tile from the device will appear. Scroll down to the last service, open it by clicking on the name and press the synchronization button to create a continuous stream of data between the application and the device.

To visualize data, export them and visualize charts click on the 'DATA VISUALIZATION' button.

## 6. DATA VISUALIZATION



On this screen data collected from the device are displayed. By pressing on the 'EXPORT CSV' button you will be redirected to the download page. If you are signed in, data will be stored both locally in the DOWNLOAD folder of the device and on the Google Firebase cloud. Otherwise, only local storing is permitted.

By pressing on the 'CLEAR CSV DATA' button all the collected data up to the current time instant are deleted.

By pressing on the 'DATA CHART VISUALIZATION' button a live chart with the collected data is displayed.